National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION LABORATORIES **NVLAP LAB CODE 200038-0**

NVLAP Code: 20/A01	ANSI/NCSL Z540-1-1994; Part 1	Compliant

DIMENSIONAL

NVLAP Code: 20/D01
Angular

Range	***Best Uncertainty (±)*** [note 1]	***Remarks***
Angle Gage Blocks		
up to 6 inches in length	± 0.5 arc seconds	by comparison
Optical Cubes		
up to 4 inches in length	± 0.5 arc seconds	By comparison or closure method when possible.
Optical Polygons		
up to 12 inches in diameter Regular polygons with 3, 4, 5, 6, 8, 10, 12, 15, 16, 18, 24, 36, or 72 sides.	± 1.0 arc seconds	by comparison

2007-01-01 through 2007-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

CALIBRATION LABORATORIES **NVLAP LAB CODE 200038-0**

NVLAP Code: 20/D03
Gage Blocks

Range	***Best Uncertainty (±)*** [notes 1, 2, 3]	***Remarks***
Standard Size Gage Blocks		
thru 1.0 in	1.35 µin [note 6]	Master Grade Calibration
thru 25 mm	0.0335 µm [note 6]	Master Grade Calibration
> 1.0 in thru 4.0 in	(0.65 + 0.7 L) µin [note 6]	Master Grade Calibration
> 25 mm thru 100 mm	(0.016 + 0.7 L) µm [note 6]	Master Grade Calibration
> 4.0 in thru 20.0 in	(3.5 + 0.25 L) µin	Master Grade Calibration
> 100 mm thru 500 mm	(0.09 + 0.25 L) µm	Master Grade Calibration
thru 4.0 in	(1.4 + 0.6 L) µin [note 4]	Commercial Grade Calibration
thru 100 mm	(0.035 + 0.6 L) µm [note 5]	Commercial Grade Calibration
> 4.0 in thru 20.0 in	(6.0 + 0.3 L) µin	Commercial Grade Calibration
> 100 mm thru 500 mm	(0.15 + 0.3 L) µm	Commercial Grade Calibration
Non Standard Size Gage Blocks		
to 1.0 in	2.2 µin	Master Grade Calibration
to 25 mm	0.055 µm	Master Grade Calibration
> 1.0 in thru 4.6 in	(1.6 + 0.6 L) µin	Master Grade Calibration
> 25 mm thru 117 mm	(0.04 + 0.06 L) µm	Master Grade Calibration
> 4.6 in thru 20.0 in	(6.0 + 0.35 L) µin	Master Grade Calibration
>117 mm thru 500 mm	(0.15 + 0.35 L) µm	Master Grade Calibration

NVLAP Code: 20/D05
Step Gages

Calibration of Webber Style Step Gages

Range	***Best Uncertainty (±)*** [notes 1, 2, 3]	***Remarks***
to 85 in	(10 + 2.0 L) µin	Commercial Grade
to 2150 mm	(0.25 + 0.002 L) mm	Commercial Grade

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CALIBRATION LABORATORIES **NVLAP LAB CODE 200038-0**

NVLAP Code: 20/D08
Optical Reference Planes

Range	***Best Uncertainty (±)*** [note 1]	***Remarks***
up to 6 inches in diameter	± 3 µin	by comparison

1. Represents an expanded uncertainty using a coverage factor, k = 2, at an approximate level of confidence of 95 %.
2. Approximate value. Actual value determined by the test statistics.
3. L is in inches or meters as appropriate.
4. Uncertainty not less than 2.0 µin.
5. Uncertainty not less than 0.05 µm.
6. Best uncertainty is for gage blocks of chrome-carbide material. Best uncertainty for materials other than chrome-carbide may be approximately 40 % larger.

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